## AMENDMENTS TO AND LISTING OF THE CLAIMS

This listing of the claims will replace all prior versions and listings of the claims in this application.

Please amend the claims as follows:

1-16. (Canceled).

17. (New) An ophthalmic sensor, comprising an ophthalmic device having a polymer matrix and a molecular sensing moiety in and/or on said ophthalmic device, wherein the molecular sensing moiety is capable of interacting or reacting with sugar to provide an optical signal which is indicative of sugar level in an ocular fluid, wherein the molecular sensing moiety is a compound having a structural formula (1):

$$R = \left( \frac{10}{100} \right)^{\frac{100}{100}}$$

wherein R' is H or an olefinically unsaturated, crosslinkable radical having up to 25 carbon atoms; R is H, NR<sub>1</sub>R<sub>2</sub>, CN, OCH<sub>3</sub>, or a radical constituent capable of donating an electron to or accepting an electron from an adjacent aromatic system, wherein R<sub>1</sub> is H or C<sub>1</sub>-C<sub>6</sub> alkyl and R<sub>2</sub> is a C<sub>3</sub>-C<sub>25</sub> radical terminated with:

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OF

and

n is an integer from 1 to 5.

- 18. (New) The ophthalmic sensor of claim 17, wherein the ophthalmic device is a contact lens, a corneal onlay or an implantable ophthalmic device.
- 19. (New) The ophthalmic sensor of claim 17, wherein the polymer matrix is obtained by polymerization of a material forming the ophthalmic device.
- 20. (New) The ophthalmic sensor of claim 19, wherein the material forming the ophthalmic device comprises one or more prepolymers.
- 21. (New) The ophthalmic sensor of claim 20, wherein the one or more prepolymers are silicone-containing prepolymers, silicone-free prepolymers, or a mixture thereof.
- 22. (New) The ophthalmic sensor of claim 19, wherein the material forming the ophthalmic device comprises a mixture of monomers and optionally a macromer; or a mixture of one or more prepolymers with one or more monomers and/or macromers.

- 23. (New) The ophthalmic sensor of claim 17, wherein R' is an olefinically unsaturated, crosslinkable radical having up to 25 carbon atoms.
- 24. (New) The ophthalmic sensor of claim 17, wherein R is NR<sub>1</sub>R<sub>2</sub>, and wherein R<sub>1</sub> is H or C<sub>1</sub>-C<sub>6</sub> alkyl and R<sub>2</sub> is a C<sub>3</sub>-C<sub>25</sub> radical terminated with

25. (New) The ophthalmic sensor of claim 23, wherein R is NR<sub>1</sub>R<sub>2</sub>, and wherein R<sub>1</sub> is H or C<sub>1</sub>-C<sub>6</sub> alkyl and R<sub>2</sub> is a C<sub>3</sub>-C<sub>25</sub> radical terminated with

- 26. (New) The ophthalmic sensor of claim 17, wherein the molecular sensing moiety is covalently attached to the surface of the ophthalmic device.
- 27. (New) The ophthalmic sensor of claim 25, wherein the molecular sensing moiety is covalently attached to the surface of the ophthalmic device.